

REAL-TIME NAVIGATIONAL AID SYSTEM FOR RADIOGRAPHY

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ABSTRACT

10 The invention provides a navigation method, located in the region of interest, that is designed to be used within a radiography unit including an X-ray source, recording systems placed in front of the source, and a support for the object to be radiographed. The method includes the following steps :

15 a) acquisition of tridimensional data on volume V1 images in the region of interest ;

b) calculation, at time t, of a bidimensional projection image representing all or part of volume V1 and/or sub-volume of volume V1 depending on the position of the support, of the source and recording means, of a field of vision (FOV), focal distance (DF) and object distance (DO) ;

20 c) possible superposition or subtraction or fusion of the projection image and/or the sub-volume according to a given plane section of a radioscopy associated with the positions of the support, of the source and recording means, of a field of vision (FOV), focal distance (DF) and object distance (DO), at time t ; and,

25 d) display of an image and/or a volume resulting from step c), and/or the projection image and/or the sub-volume.